

Patent Abstracts of Japan

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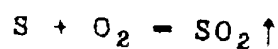
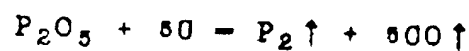
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APPLICANT : KAWASAKI STEEL CORP;

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TITLE : DEPHOSPHORIZATION AND
DESULFURIZATION OF MIXED SLAG
OF BLAST FURNACE AND
CONVERTER



ABSTRACT : PURPOSE: To reduce P and S content of slag to an amount capable of using slag in a recycle manner by a mechanism wherein one or more of C, Si or Mg is added to a mixture of molten blast furnace slag and molten converter slag and, moreover O₂ gas is blown into the said mixture.

CONSTITUTION: Into a mixture of molten blast furnace slag and molten converter slag, one or more of C, Si or Mg is added and, moreover O₂ gas is blown to transfer P and S within a mixed gas to a gas phase as shown by a formula. By above described added element which also functions as heat source, SiO and CO₂ gas are produced and these gas is reacted with slag to transfer P to a gas phase and to promote desulfurization at the same time.

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